

EPA Region 9 Mobile Source Inspection Photos

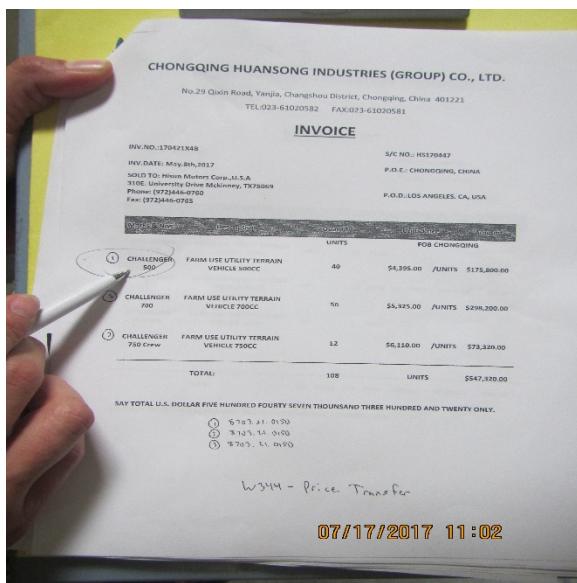
Importer: MTD Consumer Group

Inspection Date: 07/17/17

Photographer: Daniel Haskell (haskell.daniel@epa.gov)



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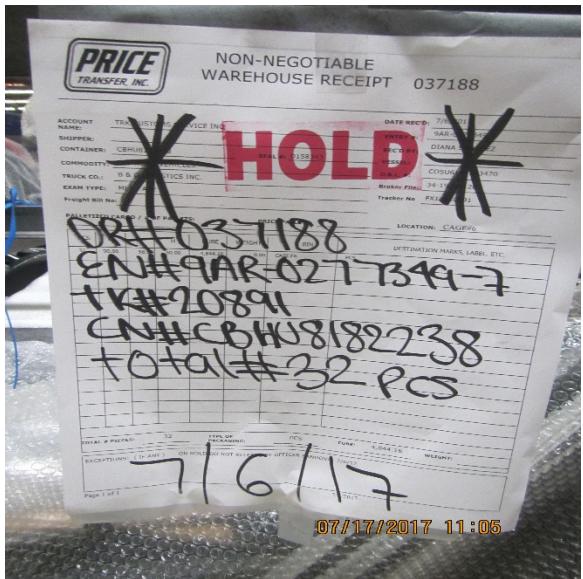
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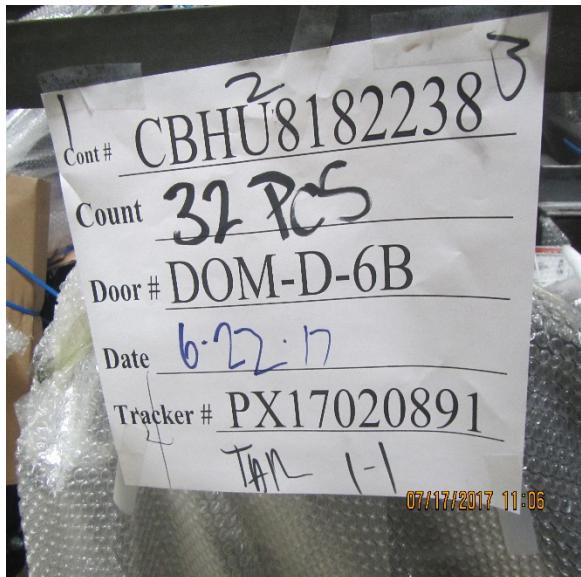
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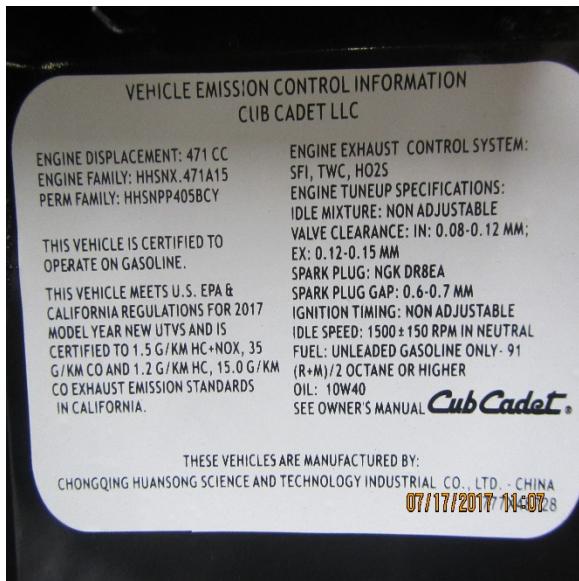
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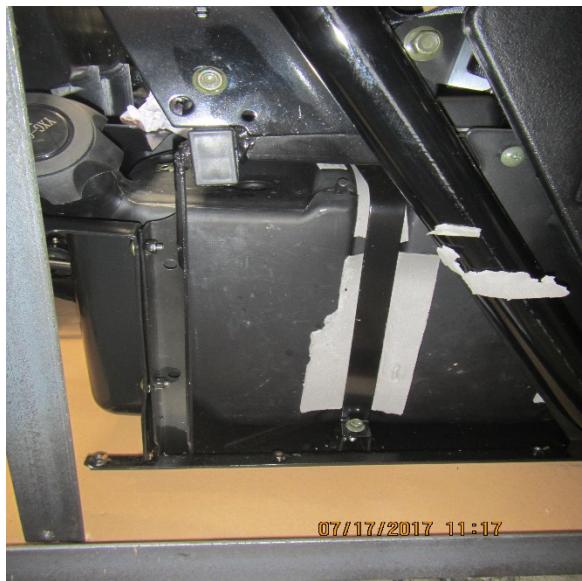
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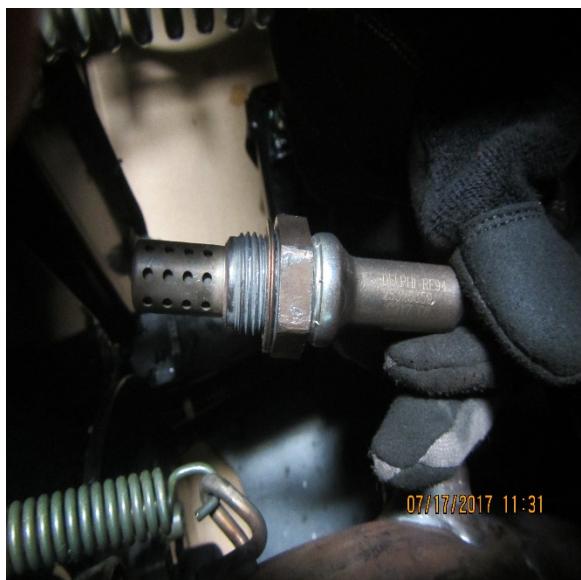


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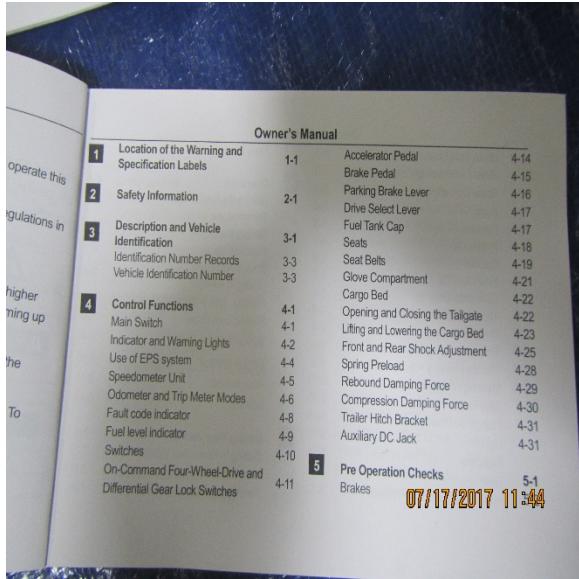
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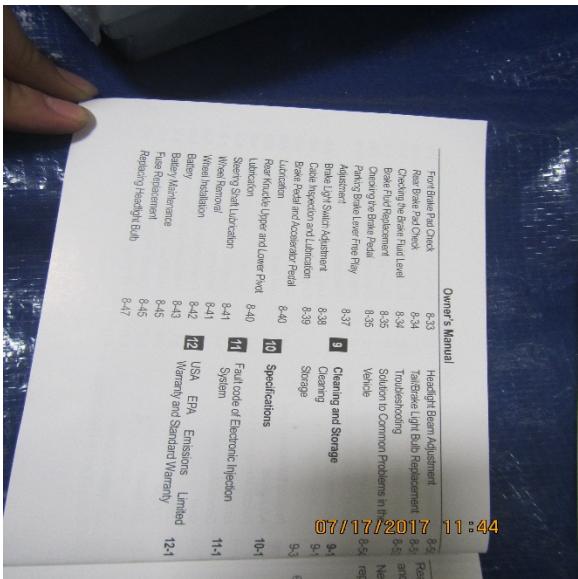
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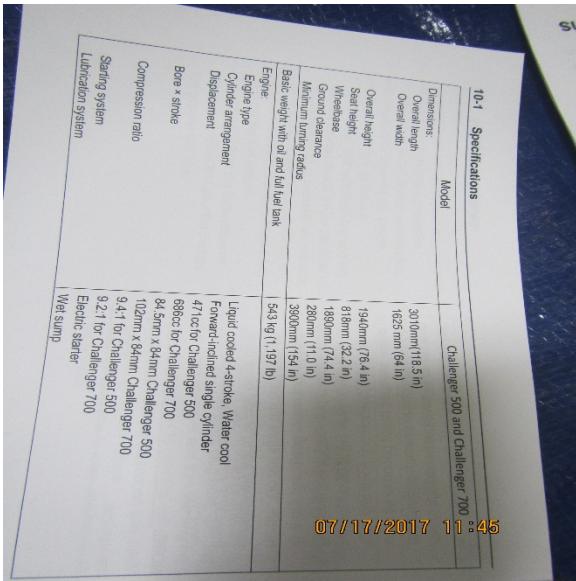
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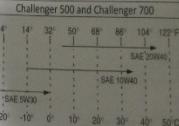
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Model		Specifications 10-2	
Challenger 500 and Challenger 700		Challenger 500 and Challenger 700	
Engine oil: Type			
Recommended engine oil classification		API service SG type or higher, JASO standard MA	
CAUTION:		<p>In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of "CD" or oils of a higher quality than specified. In addition, do not use oils labeled "ENERGY CONSERVING II" or higher.</p>	
Quantity: Without oil filter cartridge replacement		1.90L (2.01 qt) 07/17/2017 11:46	
With oil filter cartridge replacement		2.10L (2.22 qt)	

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10-3 Specifications	
Final gear case oil	Model
Type	Challenger 500 and Challenger 700
Quantity:	SAE80 API GL-4 hybrid gear oil 0.25L (0.26 qt)
Differential gear case oil:	
Type	SAE80 API GL-5 Hybrid gear oil
Quantity:	0.32L (0.34 qt)
Radiator capacity (rounding all routes):	2.50L (2.64 qt)
Air filter:	
Engine	
Intake duct	Wet element
Fuel:	Dry element
Type	
Fuel tank capacity	Unleaded gasoline only. No E-85. Max E-10 Fuel 20L (5.28 gal)
Throttle valve:	
Type/quantity	
Spark plug:	NGK Iridium
Type	DCRTE
Spark plug gap	0.647 mm (0.0253 in)
Cooler type	Wet, centrifugal automatic

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Specifications 10-4		
Model		Challenger 500 and Challenger 700
Transmission:		
Primary reduction system		V-belt
Secondary reduction system		Shaft drive
Transmission type		V-belt automatic
Operation		Right hand operation
Reverse gear		1.471
Sub transmission ratio	low	2.059
	High	1.238
Chassis:		
Frame type		Steel tube frame
Caster angle		5.0°
Trail		26.0mm (1.02 in)
Tire:		
Type		Tubeless
Size	front	26x9-12
	rear	26x10-12

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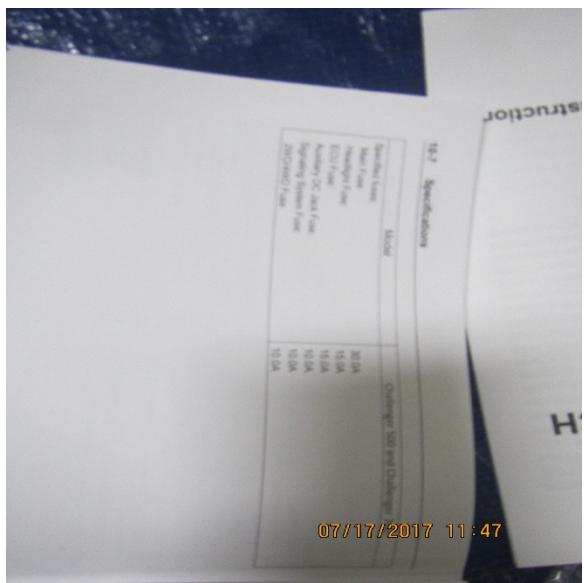
10-5 Specifications		
Model		Challenger 500 and Challenger 700
Brakes		
I. Front brake	Type	Dual disc brake
Rear brake	Operator	Foot operation
II.	Type	Single disc brake
Front brake	Operator	Foot operation
Rear brake	Type	Dual disc brake
	Operator	Foot operation
Suspension:		
Front/rear suspension	Operation	Foot operation
Shock absorber:		
Front shock absorber		double wishbone
Rear shock absorber		
	Coil spring/damper	Coil spring/damper
Wheel travel:		
Front wheel travel		137mm (5.2in)
Rear wheel travel		155mm (5.9in)

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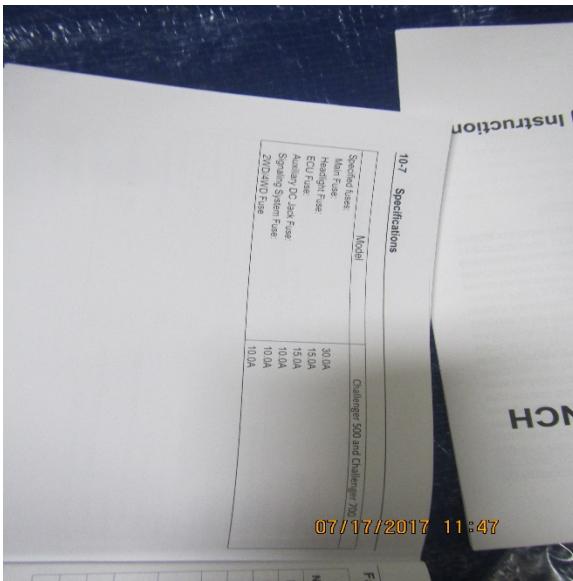
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Model		Specifications 10-6
Electrical:		Challenger 500 and Challenger 700
Ignition system	ECU	
Generator system	AC magneto	
Battery type	UI1-11 or GSU1-9	
Battery capacity	12V32.0Ah or 12V30.0Ah	
Bulb voltage, wattage x quantity:		
Headlight	12V30.0W/30.0W x 2	
Tail/brake light	12V5.0W/21.0W x 2	
Indicator lights:		
Neutral / Reverse indicator light	LED	
Coolant temperature warning light	LED	
Parking brake indicator light	LED	
On-Command four-wheel-drive/differential gear lock indicator	LED	
On-Command differential gear lock indicator light	LED	
High-range/ Low-range indicator light	LED	

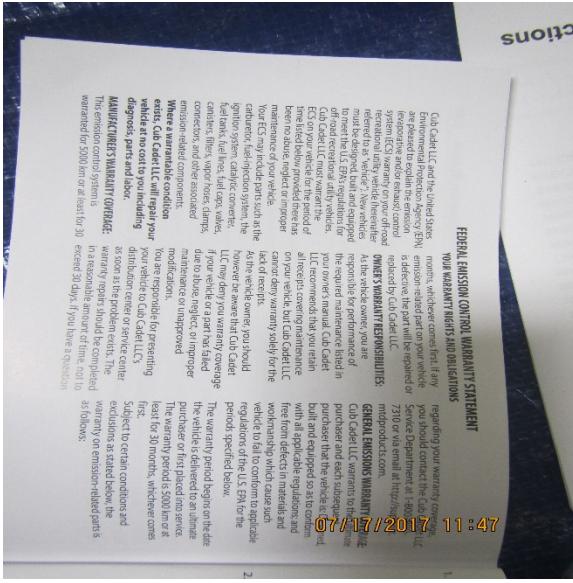
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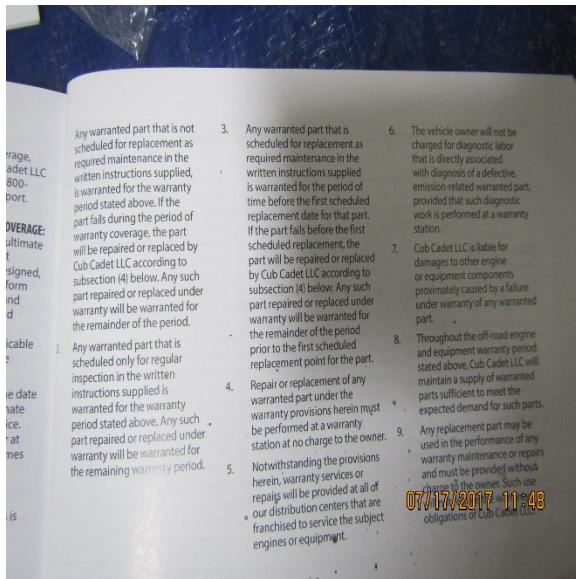
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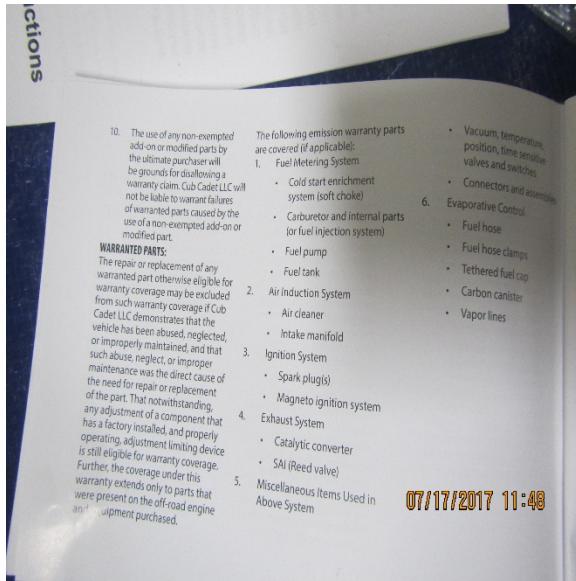
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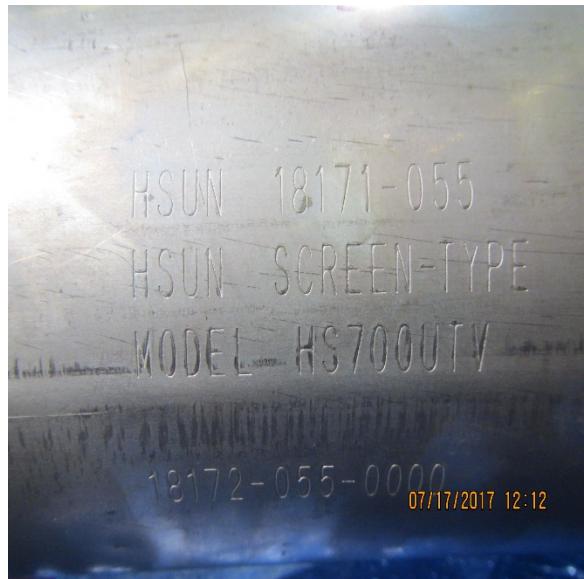
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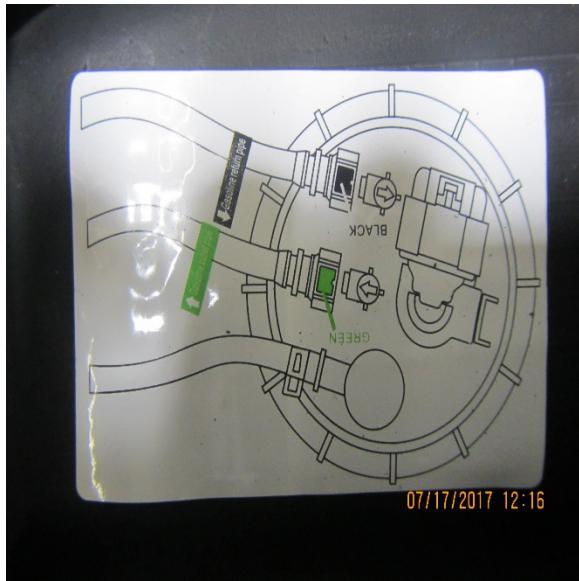
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